

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: McGRAW-EDISON

Report Number: P631813

Luminaire Tested: GWS-SA2B-740-U-RW-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P631813
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-49)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA2B-740-U-RW-W
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: (32) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7104.3 lumens
Efficiency: N/A
Efficacy: 153.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

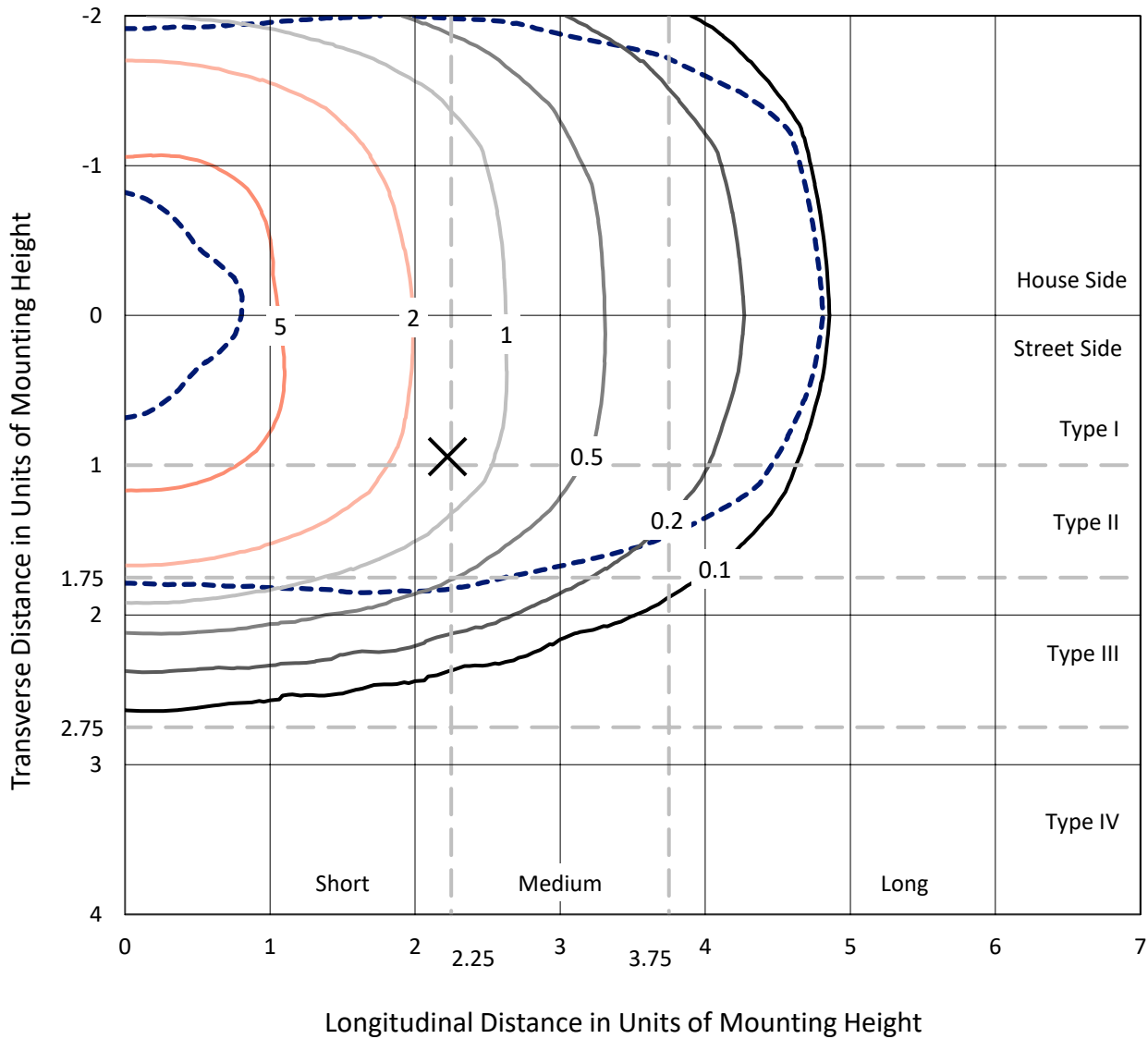
Input Watts (W): 46.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

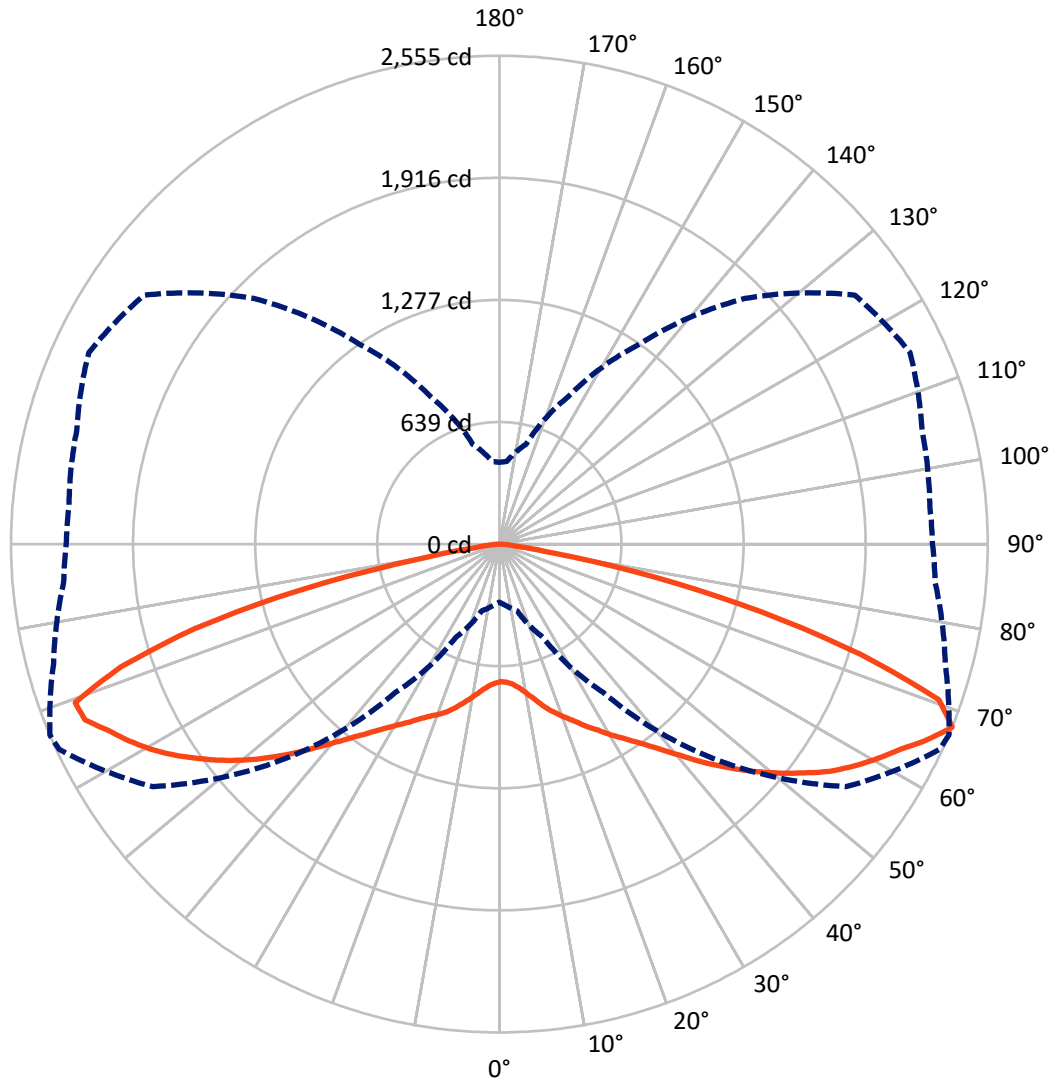
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8.3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3513.0	0.0	3513.0
	% Fixture	49.4	0.0	49.4
Street Side	Lumens	3591.4	0.0	3591.4
	% Fixture	50.6	0.0	50.6
Total	Lumens	7104.3	0.0	7104.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.6	1.0
10°-20°	238.4	3.4
20°-30°	467.8	6.6
30°-40°	797.0	11.2
40°-50°	1279.8	18.0
50°-60°	1739.0	24.5
60°-70°	1663.5	23.4
70°-80°	790.9	11.1
80°-90°	57.3	0.8
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	7104.3	100.0
0°-180°	7104.3	100.0

Coefficient of Utilization



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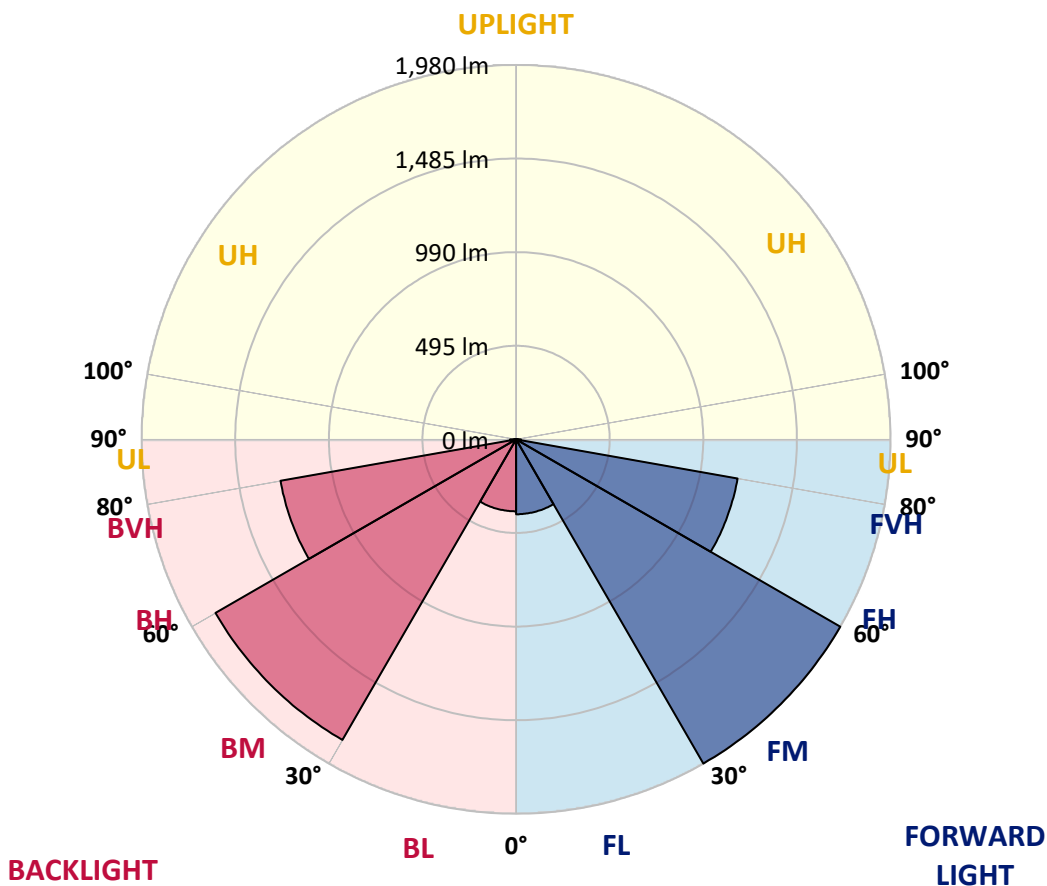
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	396.1	5.6			
FM (30°-60°)	1980.0	27.9			
FH (60°-80°)	1189.4	16.7			G1/1800
FVH (80°-90°)	25.8	0.4			G1/100
BL (0°-30°)	380.7	5.4	B1/500		
BM (30°-60°)	1835.8	25.8	B2/2500		
BH (60°-80°)	1264.9	17.8	B3/2500		G3/2500
BVH (80°-90°)	31.6	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	719.3	719.3	719.3	719.3	719.3	719.3	719.3	719.3	719.3	719.3	719.3
2.5°	704.5	705.5	707.0	709.9	712.9	717.4	721.8	721.3	723.3	724.8	726.3
5°	700.5	701.5	704.0	708.0	712.4	719.8	729.2	733.2	736.2	741.6	746.6
7.5°	709.0	710.9	714.4	719.8	726.8	736.2	749.0	756.0	760.4	770.3	778.7
10°	720.3	722.8	729.7	740.1	750.5	764.9	781.2	791.6	794.6	807.4	823.2
12.5°	731.2	734.2	745.6	764.4	783.2	802.5	821.8	834.6	835.6	852.9	870.7
15°	748.5	751.0	766.4	790.6	819.3	846.0	869.8	878.7	882.6	895.0	917.2
17.5°	786.6	789.6	809.4	835.6	865.8	894.0	917.7	925.2	925.2	935.6	953.9
20°	827.7	830.7	856.9	890.5	927.1	955.8	974.1	967.2	964.7	967.7	980.6
22.5°	873.7	879.2	904.4	943.5	988.5	1023.6	1033.0	1012.2	1005.3	998.4	1001.4
25°	932.6	939.0	963.8	1005.3	1049.3	1086.4	1091.9	1059.7	1055.8	1031.5	1022.6
27.5°	1000.4	1005.3	1036.0	1077.0	1118.1	1149.3	1155.2	1115.6	1102.3	1068.6	1047.9
30°	1087.9	1092.4	1119.1	1159.7	1195.3	1217.1	1224.5	1170.1	1159.7	1108.2	1076.1
32.5°	1183.4	1185.4	1212.6	1251.7	1283.4	1304.1	1293.7	1230.4	1215.1	1157.2	1113.2
35°	1292.8	1292.8	1327.9	1359.5	1384.8	1390.7	1370.9	1298.7	1280.9	1218.0	1163.1
37.5°	1400.1	1403.1	1435.7	1473.3	1495.6	1494.6	1458.5	1379.3	1359.0	1290.8	1229.9
40°	1516.4	1522.8	1555.5	1597.5	1618.8	1615.8	1560.4	1472.3	1451.6	1370.9	1311.6
42.5°	1623.2	1633.6	1671.7	1714.8	1738.0	1736.0	1678.2	1579.2	1558.9	1467.9	1408.5
45°	1708.3	1719.2	1766.7	1826.6	1863.7	1860.2	1801.8	1690.0	1665.3	1569.8	1504.5
47.5°	1783.0	1794.4	1847.4	1910.7	1969.6	1975.5	1922.1	1801.8	1775.6	1679.1	1605.4
50°	1840.4	1845.9	1905.2	1974.5	2042.8	2075.9	2029.4	1914.1	1882.5	1787.0	1703.9
52.5°	1836.0	1843.4	1916.6	2010.6	2102.1	2156.6	2124.4	2020.0	1989.3	1885.4	1804.3
55°	1745.4	1752.9	1839.9	1977.0	2135.3	2215.4	2212.0	2120.9	2098.7	1985.9	1908.7
57.5°	1613.3	1629.7	1716.2	1864.2	2091.8	2262.4	2276.3	2213.0	2189.7	2084.3	2012.1
60°	1376.9	1398.6	1498.6	1690.5	1952.2	2246.6	2345.1	2290.6	2276.3	2175.9	2105.6
62.5°	1000.4	1016.2	1149.3	1401.1	1745.4	2133.8	2402.9	2370.8	2359.9	2258.0	2190.2
65°	599.1	635.2	742.1	991.0	1408.0	1921.1	2371.3	2475.7	2464.3	2342.6	2262.4
67.5°	303.3	319.6	361.7	537.3	946.9	1589.6	2212.5	2541.0	2554.8	2414.8	2288.2
70°	188.0	192.5	204.3	265.2	473.0	1044.4	1809.3	2370.8	2438.6	2403.4	2221.4
72.5°	150.9	151.9	153.9	165.2	227.1	488.3	1143.8	1856.8	1979.0	2244.6	2125.9
75°	125.2	125.7	126.2	129.6	141.5	199.4	556.6	1275.9	1418.9	1907.7	1971.0
77.5°	100.4	98.0	99.9	101.4	104.4	111.3	192.0	680.8	825.7	1252.2	1524.3
80°	65.3	64.3	68.3	69.8	72.7	77.2	102.4	231.0	280.5	455.7	484.8
82.5°	35.1	33.1	41.6	40.1	41.6	45.0	60.4	84.6	95.0	137.5	116.3
85°	10.9	10.9	11.4	13.4	16.3	15.8	26.2	41.6	46.0	58.9	43.5
87.5°	2.0	2.0	2.0	2.0	2.0	2.5	5.4	8.4	11.4	20.3	15.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	719.3	719.3	719.3	719.3	719.3	719.3	719.3	719.3	719.3	719.3	719.3
2.5°	729.2	724.8	727.3	728.8	728.3	727.3	722.3	721.3	718.9	714.9	713.9
5°	751.0	746.1	746.6	745.1	740.1	733.7	722.8	717.4	712.9	708.0	707.5
7.5°	785.2	779.7	778.2	771.3	757.4	742.6	725.3	715.4	708.0	701.5	700.5
10°	828.7	823.2	818.3	802.0	779.2	759.4	736.7	722.3	711.4	703.5	702.0
12.5°	877.2	872.7	860.4	836.6	809.4	786.1	762.9	745.1	729.2	717.4	715.9
15°	931.1	921.2	902.4	871.7	846.0	827.2	799.0	774.8	749.5	733.7	730.2
17.5°	968.7	960.3	938.0	908.3	888.1	871.7	838.6	804.0	769.8	746.6	741.6
20°	995.4	986.5	961.3	939.5	933.1	919.2	880.6	840.6	801.0	772.3	765.9
22.5°	1014.7	1005.3	979.6	968.7	977.6	975.1	937.5	892.0	845.0	810.9	803.0
25°	1033.0	1024.1	1001.4	1005.3	1029.1	1036.5	995.9	943.0	889.5	849.5	840.1
27.5°	1050.3	1039.0	1028.6	1050.3	1084.0	1097.8	1054.8	994.9	937.0	896.0	888.6
30°	1077.0	1063.7	1062.2	1093.9	1147.3	1159.2	1111.7	1051.8	994.4	952.9	943.5
32.5°	1110.7	1098.3	1099.3	1146.8	1208.6	1218.5	1178.0	1122.1	1064.7	1023.1	1010.3
35°	1156.2	1140.9	1149.3	1207.7	1270.0	1288.3	1255.6	1209.1	1153.2	1110.7	1096.3
37.5°	1219.0	1196.8	1214.1	1275.4	1338.3	1365.5	1340.2	1305.6	1250.2	1207.2	1193.8
40°	1299.2	1280.9	1287.8	1355.6	1420.4	1453.0	1437.2	1403.1	1348.2	1303.1	1287.8
42.5°	1394.2	1375.9	1373.4	1445.6	1510.4	1559.9	1544.6	1513.4	1456.5	1405.1	1390.2
45°	1487.2	1470.4	1473.8	1547.5	1620.3	1674.2	1658.9	1622.2	1560.4	1501.0	1489.2
47.5°	1584.2	1570.3	1573.3	1651.4	1731.6	1785.5	1766.2	1721.7	1649.5	1586.1	1571.8
50°	1683.6	1667.8	1672.2	1754.3	1840.9	1891.9	1862.2	1796.4	1716.7	1654.9	1642.5
52.5°	1782.5	1763.7	1775.1	1852.8	1942.3	1982.9	1928.0	1848.3	1771.2	1709.8	1696.0
55°	1896.3	1876.5	1864.2	1947.3	2035.8	2052.7	1977.5	1884.5	1792.9	1723.2	1714.8
57.5°	2000.2	1983.4	1960.2	2043.3	2108.6	2096.2	2015.6	1874.6	1740.0	1650.4	1638.6
60°	2093.2	2078.9	2058.6	2129.4	2159.0	2131.3	1984.9	1757.3	1609.4	1515.9	1510.4
62.5°	2178.8	2163.5	2144.7	2205.1	2201.1	2136.8	1845.4	1577.2	1379.3	1278.9	1270.0
65°	2246.6	2232.8	2227.3	2274.8	2268.4	2030.4	1628.2	1282.4	1007.8	894.5	891.0
67.5°	2265.9	2260.5	2289.7	2370.3	2269.9	1816.7	1276.9	850.5	541.2	433.9	427.5
70°	2193.7	2193.2	2276.8	2392.1	2064.0	1387.7	753.5	383.4	272.1	241.4	237.5
72.5°	2099.7	2098.2	2164.5	2063.6	1530.7	759.4	317.1	205.3	170.2	161.8	161.8
75°	1945.3	1941.4	1991.3	1569.8	860.8	286.0	168.2	141.0	133.6	132.1	132.1
77.5°	1585.6	1552.5	1473.8	970.2	300.3	140.5	111.3	110.8	106.4	105.9	105.9
80°	521.5	521.5	606.1	370.1	132.6	86.6	78.7	82.6	78.2	75.2	74.7
82.5°	85.1	117.3	166.7	105.9	71.7	53.9	48.5	51.5	53.9	43.0	43.0
85°	33.6	44.0	64.3	49.5	33.1	21.8	23.3	25.7	22.8	19.8	19.3
87.5°	12.9	15.8	22.8	11.9	6.9	4.0	2.5	2.5	2.0	2.0	2.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)